

DIALOG(R)File 351:Derwent WPI  
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**Missing page detector for bookbinding even paged books - uses  
discriminating circuit to compare measured arm movement difference and  
standard arm movement difference detected by probe**

Patent Assignee: HOUNET KK (HOUN-N); NIPPON CHEMICON CORP (NIEM )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7137880	A	19950530	JP 93353996	A	19931230	199530 B

Priority Applications (No Type Date): JP 93259366 A 19930922

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 7137880	A		10	B65H-007/04	

Abstract (Basic): JP 7137880 A

The detection device uses an arm probe (1) capable of circular arc movements to measure the thickness of book pages (20) placed on a table. The probe extends its arm until it rests above the pages. The arm movement made from the initial position (A) to the final position (C) is measured and compared with the preceeding measured arm movement, and the difference is computed.

A standard arm movement obtained by computing the difference between a measured arm movement and a preceeding measured arm movement is stored in the memory. This represents the standard thickness of a group of book pages to be bound. When the discriminating circuit determines that the measured arm movement difference is not the same as the standard arm movement difference, an indication is flashed through the display circuit.

ADVANTAGE - Speeds up bookbinding by reducing measuring time and immediately indicating missing page detection, and is adapted to different thickness specifications.

Dwg.1/9

Title Terms: MISS; PAGE; DETECT; BOOKBINDING; EVEN; PAGE; BOOK;

DISCRIMINATE; CIRCUIT; COMPARE; MEASURE; ARM; MOVEMENT; DIFFER; STANDARD;

ARM; MOVEMENT; DIFFER; DETECT; PROBE

Derwent Class: P76; Q36; S02; S06

International Patent Class (Main): B65H-007/04

International Patent Class (Additional): B42C-001/00; G01B-021/08

File Segment: EPI; EngPI

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